

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

MAY 09 2006

PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.

GPI 05.01

APPLICATION NO.

10/528,386

APPLICANT(S)

MADOCKS

FILING DATE

March 17, 2005

GROUP ART UNIT

2821

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hp	3,878,085	04/15/1975	Corbani	—	—	
hp	5,069,770	12/03/1991	Glocker	—	—	
	5,133,850	07/28/1992	Kukla et al.	—	—	
	5,728,280	03/17/1998	Scherer	—	—	
hp	5,904,952	05/18/1999	Lopata et al.	—	—	

## U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hp	2002/0153103	10/24/2002	Madocks	—	—	
hp	2003/0230961	12/18/2003	Madocks	—	—	
	2004/0074443	04/22/2004	Madocks	—	—	
hp	2004/0135485	07/15/2004	Madocks	—	—	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
hp	WO 2004/031441	04/15/2004	PCT	<del>C33C</del>	<del>16/509</del>	✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Marie Thibault*

DATE CONSIDERED

12/29/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

ATTY DOCKET NO.  
**GPI 05.01**

APPLICATION NO.  
**10/528,386**

**MADOCKS**

FILING  
**March 17, 2005**

GROUP ART  
**2821**

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hp	6,734,434	05/11/2004	Sainty	—	—	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hp	2004/0149574	08/05/2004	Madocks	—	—	
hp	2004/0155592	08/12/2004	Madocks	—	—	
hp	2004/0217713	11/04/2004	Madocks	—	—	
hp	2005/0247885	11/10/2005	Madocks			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Marisa Thibault*

DATE CONSIDERED

*12/29/06*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

ATTY DOCKET NO.  
**GPI 05.01**

APPLICATION NO.  
**10/528,386**

**MADOCKS**

FILING  
**March 17, 2005**

GROUP ART  
**2821**

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>hp</i>	2006/0000705	01/05/2006	Hartig et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Marisa Thibault*

DATE CONSIDERED

*12/28/06*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/528,386
Filing Date	March 17, 2005
First Named Inventor	John Madocks
Art Unit	2821
Examiner Name	PHILIPPE
Attorney Docket Number	6863-A-07

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
hp		US- 4,915,805	04/10/1990	Rust	
		US- 4,933,057	06/12/1990	Sebastiano et al	
		US- 5,073,245	12/17/1991	Hedgcoth	
		US- 5,334,302	08/02/1994	Kubo et al	
		US- 5,482,611	01/09/1996	Helmer et al	
		US- 5,908,602	06/01/1999	Bardos et al	
		US- 6,444,100	09/03/2002	McLeod	
		US- 6,444,945	09/03/2002	Maschwitz et al	
		US- 5,614,248	03/25/1997	Schiller et al	
		US- 4,941,430	07/17/1990	Wantanabe et al	
		US- 5,656,141	08/12/1997	Betz et al	
		US- 4,868,003	09/19/1989	Temple et al	
		US- 6,103,074	08/15/2000	Khominich	
		US- 4,871,918	10/03/1989	Miljevic	
		US- 5,838,120	11/17/1998	Semenkin et al	
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

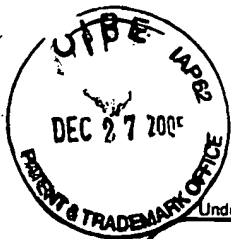
Examiner  
Signature*Harold Thibault*Date  
Considered

12/29/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/089 (07-05)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/528,386
		Filing Date	March 17, 2005
		First Named Inventor	John Madocks
		Art Unit	2821
		Examiner Name	PHILIP GENE
Sheet 2	of 2	Attorney Docket Number	6863-A-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
hp		B. WINDOW and N. SAVVIDES, "Unbalanced dc magnetrons as sources of high ion fluxes", Journal of Vacuum Science and Technology A, Volume 4 (3), May/June 1986	
hp		B. WINDOW and G.L. HARDING, "Ion-assisting magnetron sources: Principles and uses", Journal of Vacuum Science and Technology A, Volume 8 (3), May/June 1990	
hp		B. WINDOW and N. SAVVIDES, "Charged particle fluxes from planar magnetron sputtering sources", Journal of Vacuum Science and Technology A, Volume 4 (2), March/April 1986	
hp		G. ESTE and W.D. WESTWOOD, "A quasi-direct-current sputtering technique for the deposition of dielectrics at enhanced rates", J. Vac. Sci. Technol. A, Vol. 6 (3), May/Jun 1988	
hp		M. SCHERER, J. SCHMITT, R. LATZ and M. SCHANZ, "Reactive alternating current magnetron sputtering of dielectric layers" J. Vac. Sci. Technol. A, Vol 10(4) Jul/Aug 1992	

Examiner Signature	<i>Philip Gene</i>	Date Considered	12/29/06
--------------------	--------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.